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(54) Title: **METHODS TO PREDICT EDEMA AS A SIDE EFFECT OF DRUG TREATMENT**

(57) Abstract: This invention provides methods to predict the likelihood of occurrence of the side effect of edema in patients treated with a drug including, but not limited to, a TKI, such as Imatinib or GLEEVECTM/GLIVEC[®]. The methods employed use gene expression profile comparisons and the determination of specific SNPs and in the IL-1 β gene. Methods of treatment of edema and kits for the performance of the above assays are also provided.

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